

Certificate Course

On

Circuit Design Using MULTISIM

09.07.2022 to 26.07.2022

Coordinator: G. Hussain Basha



**K.S.R.M. COLLEGE OF ENGINEERING
(UGC-AUTONOMOUS)**

Kadapa, Andhra Pradesh, India – 516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

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Department of Electrical and Electronics Engineering

Lr. / KSRMCE / EEE / 2021-22 /

Date: 05.07.2022

To
The Principal,
K.S.R.M.College of Engineering (A), Kadapa.

//THROUGH PROPER CHANNEL//

Sub: KSRMCE – (EEE) – Permission for Conducting a Certification Course on “Circuit Design using MULTISIM” for B.Tech IV Semester Students – Request for Permission – Reg.

Respected Sir,

It is being brought to your kind notice that, I G. Hussain Basha, Assistant Professor from Department of EEE is organizing a Certification Course on “**Circuit Design using MULTISIM**” for B.Tech IV Semester students, from 09.07.2022 to 26.07.2022. In this regard, I request you to kindly permit for organizing the above mentioned certification course, for which kind of act I would be grateful to you sir.

The Resource persons of the workshop:

1.Smt. Saleha Tabassum, Assistant Professor in EEE, KSRMCE (A).

Thanking you Sir,

forwarded to Principal Sir
G. Hussain Basha

Yours Faithfully
G. Hussain Basha
(G. Hussain Basha)
(Assistant Professor/EEE)

Permitted
V. S. S. Murthy



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Department of Electrical and Electronics Engineering

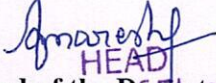
Cr./KSRMCE/(Department of E.E.E)/2021-22/

Date: 06.07.2022

Circular

It is hereby informed that the department of Electrical and Electronics Engineering is organizing a Certification Course on “**Circuit Design using MULTISIM**“ for B.Tech IV Semester students, from 09.07.2022 to 26.07.2022. The resource person is Smt. Saleha Tabassum, Assistant Professor in EEE, KSRMCE. In this Context, I request the students to register their names with the concerned coordinator on or before 07.07.2021. The details of the Workshop are as follows:

Name of the Event	Certification Course
Name of the Course	Circuit Design using MULTISIM
Date(s)	09.07.2022 to 26.07.2022
Resource persons	Smt. Saleha Tabassum, Assistant Professor in EEE, KSRMCE.
Venue	SJ – 111 (Seminar Hall)
Faculty Coordinator	G. Hussain Basha, Assistant Professor in EEE, KSRMCE


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Head of the Department
Department of Electrical &
Electronics Engineering
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Kadapa -516003.



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Department of Electrical and Electronics Engineering

List of Registered Participants

Name of the Event	Certification Course
Name of the Course	Circuit Design using MULTISIM
Date(s)	09.07.2022 to 26.07.2022
Timings	03:00 PM to 5:00 PM
Resource persons	Smt. Saleha Tabassum, Asst. Prof. in EEE
Venue	SJ – 111 (Seminar Hall)
Faculty Coordinator	Mr. G. Hussain Basha

S.No	Roll Number	Name of the Student	Signature
1	209Y1A0205	BERI YASWANTH	B. Yashwanth
2	209Y1A0206	CHEMIKALA RAMA DEVI (W)	C. Ramadevi
3	209Y1A0207	DASARI SAI PAVAN	Sai Pavan
4	209Y1A0208	DERANGULA VENKATA NAGA RUCHITHA (W)	Venkata
5	209Y1A0209	DUGGIREDDY DHARANI (W)	D. Dhareni
6	209Y1A0210	DUGGIREDDY TEJASWINI (W)	D. Tejaswini
7	209Y1A0211	GADDAM HARIKA (W)	G. Harika
8	209Y1A0215	GORLA BALANARASUGARI NARASIMHA	Narasimha
9	209Y1A0216	KANJEEVARAM SAI RAHUL	Sai Rahul
10	209Y1A0217	KARNATAKAM LIKHITHA (W)	K. Likhitha
11	209Y1A0218	KATIKA MOHAMMED KAIF ALI	Kaif Ali
12	209Y1A0219	KORAMUTLA MOHAN KRISHNA	M. Krishna



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Department of Electrical and Electronics Engineering

Certification Course on “**Circuit Design using MULTISIM**”

Modules

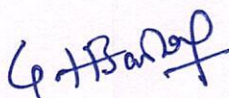
Timing: 03:00 PM to 5:00 PM

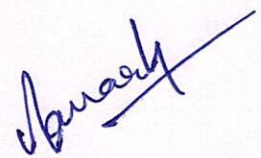
Module – 1: Drawing a Schematic: Drawing Schematic Placing Components and Wiring, More on Placing Components and Wiring, Drawing Schematic Sheet, Global Preferences, Inserting Title Block, Adding Sub Circuits, Transformer less Power Supply, Schematic Drawing, Schematic Drawing Continues.

Module – 2: Working with Instruments: Working with Instruments – Multimeter, More on Multimeter, introduction Working with instruments – Oscilloscopes, Connect Oscilloscopes to Power Supply, working with instruments – Wattmeter, Checking performs of Circuit using Wattmeter, Measurement Probe, Frequency Counter, Logic Analyzer, Logic Analyzer Continues.

Module – 3: Microprocessor Control Units (MCU): Introduction to MUC Microprocessors and PIC, Example of MUC Microprocessors and PIC, Integrating Motherboards, Integrating Motherboards Continues, Designing Motherboards.

Module – 4: Working with Analysis: Introduction to MULTISIM Schematics, Circuit Voltage for Variables, Understanding Fourier Analysis, Distortion and Noise analysis, Measurement Probes and Post processor, Measurement Probes and Post Processor Continues.


Coordinator


Head of the Department

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Course Schedule:

S.no	Date	Topic	No. of Hours
Module-1			
1	09.07.2021	Drawing a Schematic: Drawing Schematic Placing Components	2
2	11.07.2021	Wiring, Drawing Schematic Sheet	2
3	12.07.2021	Global Preferences, Inserting Title Block	2
4	13.07.2021	Adding Sub Circuits, Transformer less Power Supply	2
5	14.07.2021	Schematic Drawing, Schematic Drawing Continues.	2
Module-2			
6	15.07.2021	Working with Instruments: Working with Instruments	2
7	16.07.2021	Multimeter, More on Multimeter, Introduction Working with instruments	2
8	18.07.2021	Oscilloscopes, Connect Oscilloscopes to Power Supply, working with instruments	2
9	19.07.2021	Wattmeter, Measurement Probe, Frequency Counter, Logic Analyzer, Logic Analyzer Continues.	2
Module-3			
10	20.07.2021	Microprocessor Control Units (MCU): Introduction to MUC Microprocessors	2
11	21.07.2021	PIC, Example of MUC Microprocessors and PIC	2
12	22.07.2021	Integrating Motherboards Continues, Designing Motherboards.	
Module-4			
13	23.07.2021	Working with Analysis: Introduction to MULTISIM Schematics	3
14	25.07.2021	Circuit Voltage for Variables, Understanding Fourier Analysis	2
15	26.07.2021	Measurement Probes and Post Processor Continues.	2
		Total	31

Resource Person

Smt. Saleha Tabassum, Asst. Prof. in EEE



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Department of Electrical and Electronics Engineering Attendance Sheet

Roll Number	9.7	11.7	12.7	13.7	14.7	15.7	16.7	18.7	19.7	20.7	21.7	22.7	23.7	25.7	26.7
209Y1A0205	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
209Y1A0206	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
209Y1A0207	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
209Y1A0208	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
209Y1A0209	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
209Y1A0210	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
209Y1A0211	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
209Y1A0215	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P
209Y1A0216	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
209Y1A0217	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
209Y1A0218	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
209Y1A0219	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P





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Roll Number	9.7	11.7	12.7	13.7	14.7	15.7	16.7	18.7	19.7	20.7	21.7	22.7	23.7	25.7	26.7
209Y1A0239	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
209Y1A0240	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
209Y1A0241	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
209Y1A0242	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
209Y1A0243	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
209Y1A0244	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
209Y1A0245	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
209Y1A0246	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
209Y1A0247	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
209Y1A0248	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
209Y1A0249	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
209Y1A0250	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
209Y1A0251	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P



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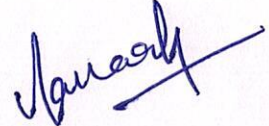
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Roll Number	9.7	11.7	12.7	13.7	14.7	15.7	16.7	18.7	19.7	20.7	21.7	22.7	23.7	25.7	26.7
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219Y5A0204	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P


Coordinator


Head of The Department

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Department of Electrical and Electronics Engineering

**Certification course
on**

Circuit Design using MULTISIM

Course Duration : 09.07.2022 to 26.07.2022

Venue: SJ-111

Resource Person

Smt. Saleha Tabassum,

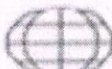
Assistant Professor,

EEE -Dept.

Faculty Coordinator

Mr. G. Hussain Basha

Assistant Professor,

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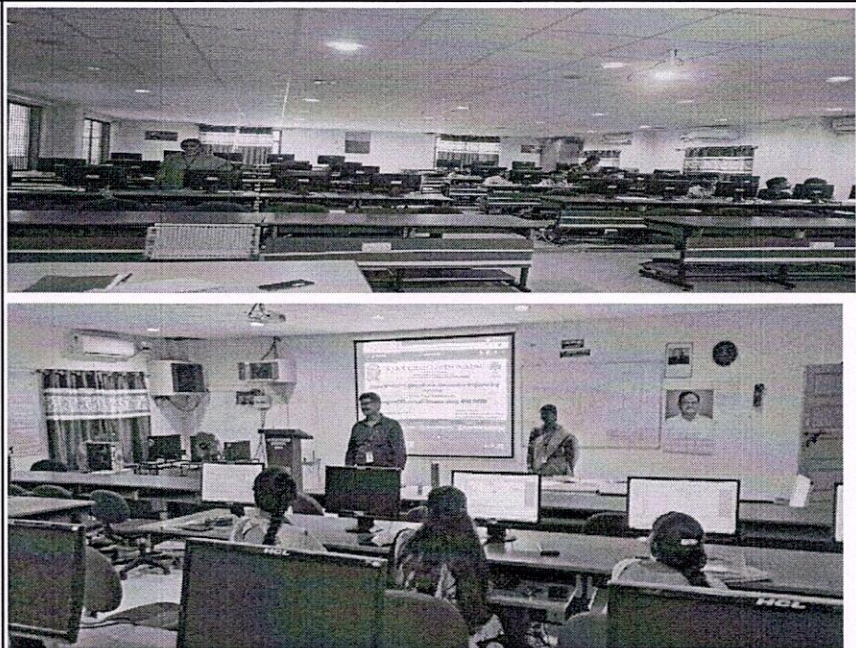
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**Department of Electrical and Electronics Engineering
Activity Report**

Name of the Event	Certification Course
Name of the Course	Circuit Design using MULTISIM
Date(s)	09.07.2022 to 26.07.2022
Target Audience	B.Tech IV Semester Students
Number of Students Participated	31
Resource Persons	Smt. Saleha Tabassum , Asst. Prof. in EEE, KSRMCE.
Organizer/Supporting Team	Mr. G. Hussain Basha
Report	Department of EEE conducted certification course on “Design of Electrical Circuits Using MULTISIM The students learnt to use the Multisim software and bridge the gap between theory and real world. By working hands on different fundamental example students gained knowledge on various real world applications on analog as well as digital electronics. And also they were able to analyze graphs, frequencies and other characteristics of the electronic components.
Photos	

G. Hussain Basha
Coordinator

Saleha Tabassum
Head of the Department &
Department of Electrical &
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Department of E.E.E

COURSE COMPLETION CERTIFICATE ON CIRCUIT DESIGN USING MULTISIM

This is to certify that **DASARI SAI PAVAN(209Y1A0207)** has participated in "Fundamentals of Python Programming" , During 09.07.2022 to 26.07.2022 organised by the Department of Electrical and Electronics Engineering, K.S.R.M. College of Engineering (Autonomous), Kadapa

Dr. K. Amaresh
HOD, EEE

Dr. V.S.S. Murthy
Principal



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Department of E.E.E

COURSE COMPLETION CERTIFICATE ON CIRCUIT DESIGN USING MULTISIM

This is to certify that SALE RAMU(209Y1A0239) has participated in "Fundamentals of Python Programming" , During 09.07.2022 to 26.07.2022 organised by the Department of Electrical and Electronics Engineering, K.S.R.M. College of Engineering (Autonomous), Kadapa

Dr. K. Amaresh
HOD, EEE

Dr. V.S.S. Murthy
Principal

Feedback on Certification Course “Circuit Design Using MULTISIM”

* Required

1. Roll Number *

2. Name of the Student *

3. Is the course content met your expectation *

Mark only one oval.

Yes

No

4. Is the lecture sequence well planned *

Mark only one oval.

Yes

No

5. The contents of the course is explained with examples *

Mark only one oval.

Agree

Strongly Agree

disagree

6. Is the level of course high *

Mark only one oval.

Agree

Disagree

7. Is the course exposed you to the new knowledge and practices

Mark only one oval.

Agree

Strongly Agree

disagree

8. Is the lecturer clear and easy to understand *

Mark only one oval.

1

2

3

4

5

9. Rate the value of course in increasing your skills *

Mark only one oval.

1

2

3

4

5

10. Any issues *

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Department of Electrical & Electronics Engineering

Feedback of students on Certification Course on "Circuit Design Using MULTISIM"

S.No	Roll Number	Name of the Student	Is the course content met your expectation	Is the lecture sequence well planned	The contents of the course is explained with	Is the level of course high	Is the course exposed you to the new knowledge	Is the lecturer clear and easy to understand	Rate the value of course in increasing your skills	Any issues
1	209Y1A0205	BERI YASWANTH	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good
2	209Y1A0206	CHEMIKALA RAMA DEVI (W)	Yes	Yes	Agree	Agree	Strongly agree	5	4	Good
3	209Y1A0207	DASARI SAI PAVAN	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
4	209Y1A0208	DERANGULA VENKATA NAGARUCHITHA (W)	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
5	209Y1A0209	DUGGIREDDY DHARANI (W)	Yes	Yes	agree	Agree	Strongly agree	4	5	very good
6	209Y1A0210	DUGGIREDDY TEJASWINI (W)	Yes	Yes	agree	Agree	Strongly agree	5	4	very good
7	209Y1A0211	GADDAM HARIKA	Yes	Yes	agree	Agree	Strongly	4	4	very
8	209Y1A0215	GORLA BALANARASUGARI NARASIMHA	Yes	Yes	agree	Agree	Strongly agree	3	5	no
9	209Y1A0216	KANJEEVARAM SAI	Yes	Yes	agree	Agree	Strongly	4	5	Good
10	209Y1A0217	KARNATAKAM	Yes	Yes	Strongly	Agree	Strongly	5	5	Good
11	209Y1A0218	KATIKA	Yes	Yes	Strongly	Agree	Strongly	3	4	Good
12	209Y1A0219	KORAMUTLA	Yes	Yes	Strongly	Agree	Strongly	5	3	Good

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Department of Electrical & Electronics Engineering

Feedback of students on Certification Course on "Circuit Design Using MULTISIM"

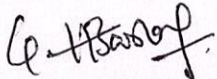
S.No	Roll Number	Name of the Student	Is the course content met your expectation	Is the lecture sequence well planned	The contents of the course is explained with	Is the level of course high	Is the course exposed you to the new knowledge	Is the lecturer clear and easy to understand	Rate the value of course in increasing your skills	Any issues
13	209Y1A0239	SALE RAMU	Yes	Yes	agree	Agree	Strongly	4	4	Good
14	209Y1A0240	SANGATI YUVARAJ	Yes	Yes	agree	Agree	Strongly	3	4	Good
15	209Y1A0241	SHAIK ALISHA	Yes	Yes	Strongly	Agree	Strongly	5	4	Good
16	209Y1A0242	SHAIK FAIZ	Yes	Yes	agree	Agree	Strongly	3	5	Good
17	209Y1A0243	SHAIK	Yes	Yes	agree	Agree	Strongly	5	5	Nothing
18	209Y1A0244	SHAIK	Yes	Yes	agree	Agree	Strongly	5	5	Good
19	209Y1A0245	SHAIK PARVEZ	Yes	Yes	agree	Agree	Strongly	3	4	very
20	209Y1A0246	SINGAMSETTY	Yes	Yes	Strongly	Agree	Strongly	3	4	Good
21	209Y1A0247	SINGARAPU	Yes	Yes	Strongly	Agree	Strongly	5	5	Good
22	209Y1A0248	SYED NAVEED	Yes	Yes	Strongly	Agree	Strongly	5	4	Good
23	209Y1A0249	TALUPULA	Yes	Yes	agree	Agree	Strongly	5	5	Good
24	209Y1A0250	UDAM LAKSHMI	Yes	Yes	agree	Agree	Strongly	5	4	no
25	209Y1A0251	VEERAMALLU	Yes	Yes	agree	Agree	Strongly	5	4	Nothing
26	209Y1A0252	VEMA JAGADEESH	Yes	Yes	agree	Agree	Strongly	5	4	Good
27	209Y1A0253	YANGAMMAGARI SOMASHEKAR REDDY	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
28	219Y5A0201	ANKE NAGARJUNA	Yes	Yes	agree	Agree	Strongly	5	5	Good

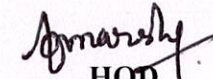
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(AUTONOMOUS)

Department of Electrical & Electronics Engineering

Feedback of students on Certification Course on "Circuit Design Using MULTISIM"

S.No	Roll Number	Name of the Student	Is the course content met your expectation	Is the lecture sequence well planned	The contents of the course is explained with	Is the level of course high	Is the course exposed you to the new knowledge	Is the lecturer clear and easy to understand	Rate the value of course in increasing your skills	Any issues
29	219Y5A0202	ARAKATA VEMULA VENKATA YASWANTH	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good
30	219Y5A0203	BUSAGANI CHANDRA KUMAR	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good
31	219Y5A0204	MAYAKUNTLA SRINIDHI (w)	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good


Coordinator

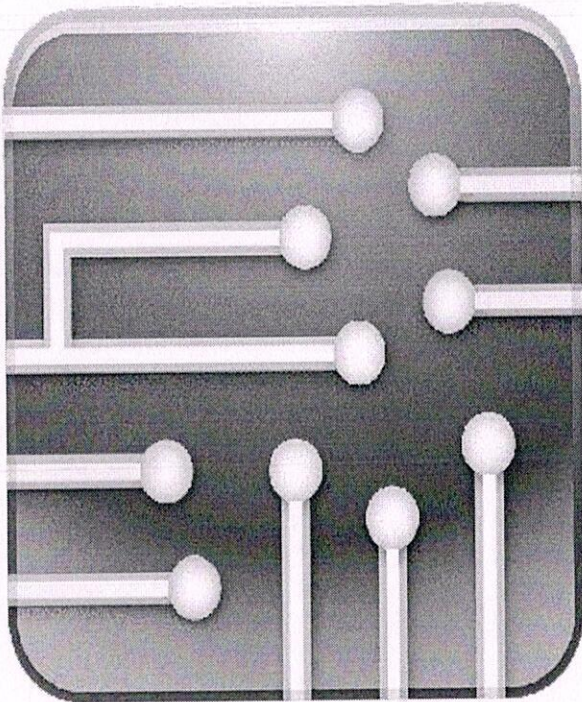

HOD

HEAD
Department of Electrical &
Electronics Engineering
K.S.R.M. College of Engineering
Kadapa -516003.

Introduction:

- Multisim is widely used in **academia and industry for circuits education**, electronic schematic design and SPICE simulation.
- Multisim is the most robust circuit design and simulation suite available. It's **format and layout are simple and easy to use**. The component library is EXTENSIVE and easy to navigate.

LOGO of MULTISIM:



Multisim 11.0

How important is Multisim?

Multisim has an intuitive interface that helps educators reinforce circuit theory and improve retention of theory throughout engineering curriculum. Researchers and designers use Multisim to reduce PCB prototype iterations and save development costs by adding powerful circuit simulation and analyses to the design flow.

How can a student get Multisim?

- The student must purchase the software online through one of **our distributors like Studica**.
- Students can also download an evaluation version of the NI Circuit Design Suite Education Edition (which includes all features from the Student Edition) from our website.

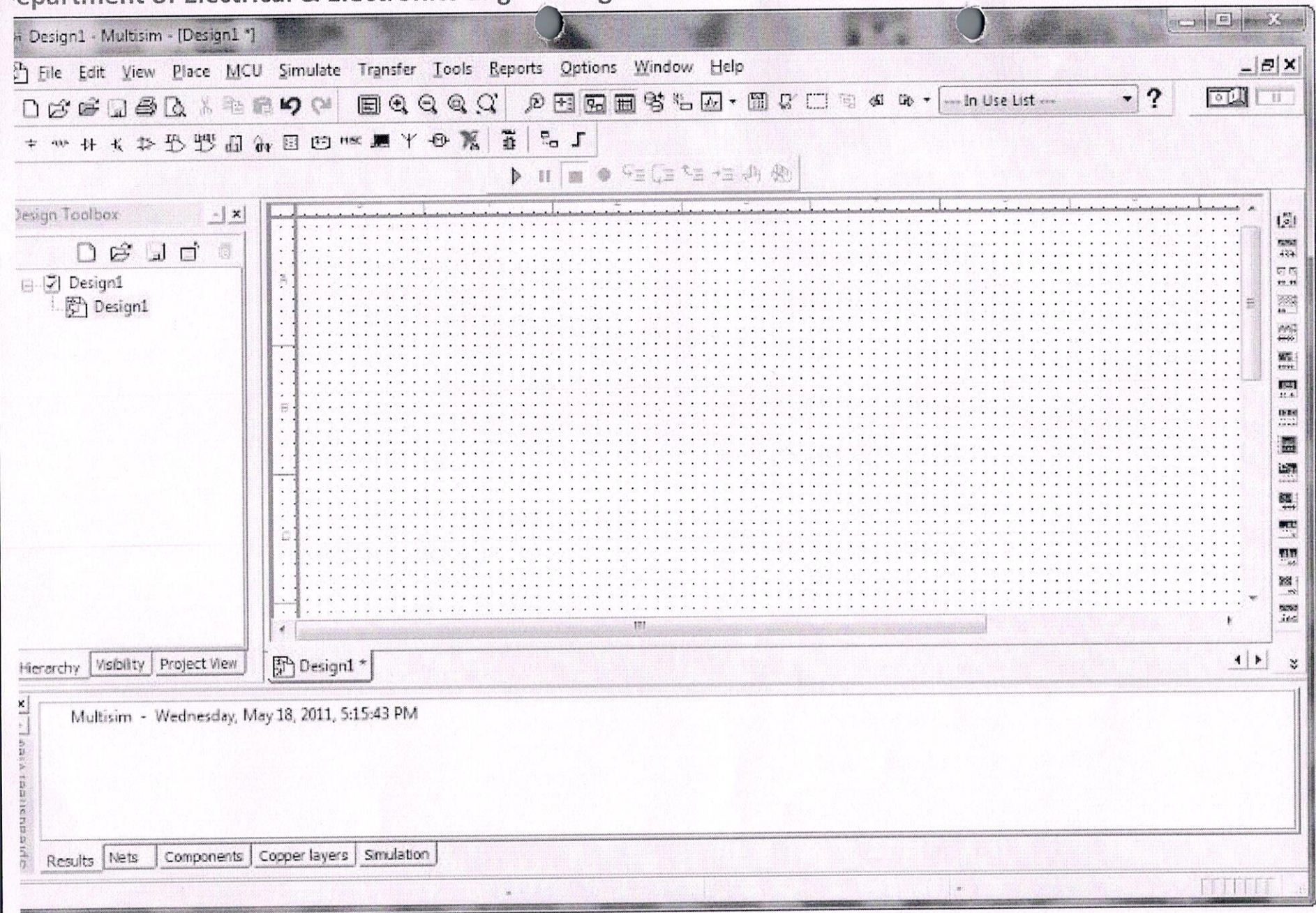
- Multisim is one among the 10 must learn Electrical Engineering Software's
- The job of an Electrical Engineer involves the design, development, simulation, prototyping, and testing of electrical equipment and systems
- Here's given a list of electrical engineering software every Electrical graduate must learn.

10 Must Learn Electrical Engineering Software

1. **MATLAB (Software for Numerical Computing)**
2. **Simulink (GUI based software for Dynamic System Simulation)**
3. **Pspice (Electrical Schematic Software)**
4. **Multisim (Circuit Simulation & PCB Design Software)**
- 5.
6. **Power World Simulator (Visual Electrical Engineering Software software)**
7. **PSCAD (Electromagnetic Transient Analysis Software)**
8. **PSS/E (An Electrical Engineering Software for Power System Simulations)**
9. **LabVIEW (Designing Interfacing and HMIs)**
10. **Kiel u Vision**

About MULTISIM Software

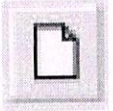

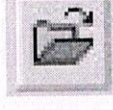
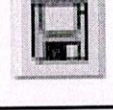

- NI Multisim is an electronic schematic capture and simulation program which is part of a suite of circuit design programs, along with NI Ultiboard.
- **License:** Proprietary EULA
- **Size:** ~260mb
- **Developer(s):** National Instruments Electronics Workbench Group (formerly by Interactive Image Technologies)
- **Operating system:** Microsoft Windows
- **Stable release:** 14.2 / 2019/05/12
- **System Requirements**
1 GB of memory. 2 GB of free hard disk space. 1024 x 768 screen resolution. To develop custom LabVIEW-based instruments for use in Multisim, LabVIEW 2017, 2018, or 2019 Full or Professional Development System is required.









Three Days Workshop on "Design of Electrical Circuits using MULTISIM"

Standard Toolbar


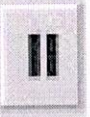
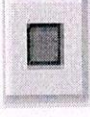

The **Standard** toolbar contains buttons for commonly performed functions. Its buttons are described below:

Button	Description
	New button. Creates a new circuit file.
	Open button. Opens an existing circuit file.
	Open Sample button. Opens a folder containing sample and getting started files.
	Save button. Saves the active circuit.
	Print Circuit button. Prints the active circuit.

	Print Preview button. Previews the circuit as it will be printed.
	Cut button. Removes the selected elements and places them on the Windows clipboard.
	Copy button. Copies the selected elements and places them on the Windows clipboard.
	Paste button. Inserts the contents of the Windows clipboard at the cursor location.
	Undo button. Undoes the most recently performed action.
	Redo button. Redoes the most recently performed undo.







Simulation Toolbar


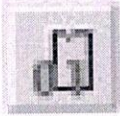
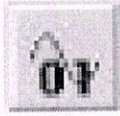
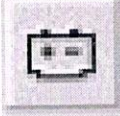

The **Simulation** toolbar contains buttons used during simulation.

Button	Description
	<p>Run/resume simulation button. Starts/resumes simulation of the active circuit. Refer to the <i>Start/Stop/Pause Simulation</i> section of Chapter 8, <i>Simulation</i>, for more information.</p>
	<p>Pause simulation button. Pauses simulation. Refer to the <i>Start/Stop/Pause Simulation</i> section of Chapter 8, <i>Simulation</i>, for more information.</p>
	<p>Stop simulation button. Stops the simulation. Refer to the <i>Start/Stop/Pause Simulation</i> section of Chapter 8, <i>Simulation</i>, for more information.</p>
	<p>Pause at Next MCU Instruction Boundary button. Refer to the <i>Stepping and Breaking</i> section for more information.</p>

Components Toolbar

The buttons in the **Components** toolbar are described below. Each button will launch the place component browser (Select a **Component** browser) with the group specified on the button pre-selected. Refer to the *Using the Place Component Browser* section for more information.






Button	Description
	Place Source button. Selects the Source components group in the browser.
	Place Basic button. Selects the Basic components group in the browser.
	Place Diode button. Selects the Diode components group in the browser.
	Place Transistor button. Selects the Transistor components group in the browser.
	Place Analog button. Selects the Analog components group in the browser.
	Place TTL button. Selects the TTL components group in the browser.

	Place CMOS button. Selects the CMOS component group in the browser.
	Place Miscellaneous Digital button. Selects the Miscellaneous Digital component group in the browser.
	Place Mixed button. Selects the Mixed component group in the browser.
	Place Power Components button. Selects the Power component group in the browser.
	Place Indicator button. Selects the Indicator component group in the browser.

Instruments Toolbar

The buttons in the **Instruments** toolbar are described below. In each case, the button places a specific instrument on the workspace.

Some versions of Multisim do not include all of the instruments described below.

Button	Description
	<p>Multimeter button. Places a multimeter on the workspace. Refer to the <i>Multimeter</i> section of Chapter 9, <i>Instruments</i>, for more information.</p>
	<p>Function Generator button. Places a function generator on the workspace. Refer to the <i>Function Generator</i> section of Chapter 9, <i>Instruments</i>, for more information.</p>
	<p>Wattmeter button. Places a wattmeter on the workspace. Refer to the <i>Wattmeter</i> section of Chapter 9, <i>Instruments</i>, for more information.</p>
	<p>Oscilloscope button. Places an oscilloscope on the workspace. Refer to the <i>Oscilloscope</i> section of Chapter 9, <i>Instruments</i>, for more information.</p>
	<p>Four Channel Oscilloscope button. Places a four-channel oscilloscope on the workspace. Refer to the <i>Four-Channel Oscilloscope</i> section of Chapter 9, <i>Instruments</i>, for more information.</p>